Franklin County, Missouri
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
1B2:								
Union	0-5	6.0-16	---	5.6-6.5	---	---	---	---
	5-30	---	14-24	4.5-5.5	---	---	---	---
	30-51	---	8.0-18	3.6-5.0	---	---	---	---
	51-60	---	20-40	4.5-6.0	---	---	---	---
1C2:								
Union	0-5	6.0-16	---	5.6-6.5	---	---	---	---
	5-30	---	14-24	4.5-5.5	---	---	---	---
	30-51	---	8.0-18	3.6-5.0	---	---	---	---
	51-60	---	20-40	4.5-6.0	---	---	---	---
1D2:								
Union	0-5	6.0-16	---	5.6-6.5	---	---	---	---
	5-30	---	14-24	4.5-5.5	---	---	---	---
	30-51	---	8.0-18	3.6-5.0	---	---	---	---
	51-60	---	20-40	4.5-6.0	---	---	---	---
2D:								
Goss	0-4	6.0-16	---	4.5-6.5	0	0	0	0
	4-20	---	10-16	4.5-6.0	0	0	0	0
	20-60	---	20-40	4.5-6.0	0	0	0	0
2F:								
Goss	0-3	6.0-16	---	4.5-6.5	0	0	0	0
	3-21	---	10-16	4.5-6.0	0	0	0	0
	21-60	---	20-40	4.5-6.0	0	0	0	0

Franklin County, Missouri
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
3:								
Twomile	0-12	6.0-12	---	4.5-7.3	---	---	---	---
	12-18	---	6.0-12	3.6-6.0	---	---	---	---
	18-30	---	6.0-12	3.6-6.0	---	---	---	---
	30-53	---	12-22	3.6-6.5	---	---	---	---
	53-60	6.0-22	---	4.5-7.3	---	---	---	---
5B:								
Hartville	0-8	10-16	---	4.5-7.3	0	0	0	0
	8-17	12-20	---	4.5-6.5	0	0	0	0
	17-60	18-30	---	4.5-6.5	0	0	0	0
5C:								
Hartville	0-8	10-16	---	4.5-7.3	0	0	0	0
	8-17	12-20	---	4.5-6.5	0	0	0	0
	17-60	18-30	---	4.5-6.5	0	0	0	0
6B:								
Bucklick	0-6	10-17	---	4.5-7.3	---	---	0	0
	6-34	18-23	---	4.5-7.3	---	---	0	0
	34-50	18-23	---	5.1-7.3	---	---	0	0
	50-54	---	---	---	---	---	---	---
6C:								
Bucklick	0-6	10-17	---	4.5-7.3	---	---	0	0
	6-34	18-23	---	4.5-7.3	---	---	0	0
	34-50	18-23	---	5.1-7.3	---	---	0	0
	50-54	---	---	---	---	---	---	---

Franklin County, Missouri
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
6D:								
Bucklick	0-6	10-17	---	4.5-7.3	---	---	0	0
	6-34	18-23	---	4.5-7.3	---	---	0	0
	34-50	18-23	---	5.1-7.3	---	---	0	0
	50-54	---	---	---	---	---	---	---
6E:								
Bucklick	0-6	10-17	---	4.5-7.3	---	---	0	0
	6-34	18-23	---	4.5-7.3	---	---	0	0
	34-50	18-23	---	5.1-7.3	---	---	0	0
	50-54	---	---	---	---	---	---	---
6F:								
Bucklick	0-9	10-17	---	4.5-7.3	---	---	0	0
	9-34	18-23	---	4.5-7.3	---	---	0	0
	34-45	18-23	---	5.1-7.3	---	---	0	0
	45-49	---	---	---	---	---	---	---
Gatewood	0-10	8.0-16	---	5.1-7.3	0	0	0	0
	10-24	30-44	---	5.1-7.3	0	0	0	0
	24-28	30-44	---	6.1-7.8	0	0	0	0
	28-32	---	---	---	---	---	---	---
7B:								
Menfro	0-6	10-16	---	5.1-7.3	---	---	---	---
	6-10	15-20	---	5.1-7.3	---	---	---	---
	10-54	15-20	---	5.1-7.3	---	---	---	---
	54-72	5.0-10	---	5.6-7.3	---	---	---	---

Franklin County, Missouri
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
7C2:								
Menfro	0-6	10-16	---	5.1-7.3	---	---	---	---
	6-10	15-20	---	5.1-7.3	---	---	---	---
	10-54	15-20	---	5.1-7.3	---	---	---	---
	54-72	5.0-10	---	5.6-7.3	---	---	---	---
7D2:								
Menfro	0-6	10-16	---	5.1-7.3	---	---	---	---
	6-10	15-20	---	5.1-7.3	---	---	---	---
	10-54	15-20	---	5.1-7.3	---	---	---	---
	54-72	5.0-10	---	5.6-7.3	---	---	---	---
7E2:								
Menfro	0-6	10-16	---	5.1-7.3	---	---	---	---
	6-10	15-20	---	5.1-7.3	---	---	---	---
	10-54	15-20	---	5.1-7.3	---	---	---	---
	54-72	5.0-10	---	5.6-7.3	---	---	---	---
7F:								
Menfro	0-6	10-16	---	5.1-7.3	---	---	---	---
	6-10	15-20	---	5.1-7.3	---	---	---	---
	10-54	15-20	---	5.1-7.3	---	---	---	---
	54-72	5.0-10	---	5.6-7.3	---	---	---	---
8B:								
Crider	0-7	---	---	5.1-7.3	---	---	0	---
	7-62	---	---	5.1-7.3	---	---	0	---
8C2:								
Crider	0-7	---	---	5.1-7.3	---	---	0	---
	7-62	---	---	5.1-7.3	---	---	0	---

Franklin County, Missouri
Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
8D2:								
Crider	0-7	---	---	5.1-7.3	---	---	0	---
	7-62	---	---	5.1-7.3	---	---	0	---
8E:								
Crider	0-7	---	---	5.1-7.3	---	---	0	---
	7-62	---	---	5.1-7.3	---	---	0	---
10F:								
Gasconade	0-6	15-22	---	6.1-7.8	0	0	0	0
	6-15	15-30	---	6.1-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---
Rock outcrop	---	---	---	---	---	---	---	---
12:								
Bremer	0-24	36-41	---	5.6-7.3	0	0	0	0
	24-60	36-41	---	5.6-6.5	0	0	0	0
13A:								
Auxvasse	0-17	5.0-8.0	---	4.5-7.3	0	0	0	0
	17-32	24-32	---	4.5-7.8	0	0	0	0
	32-60	12-20	---	4.5-7.8	0	0	0	0
14C:								
Hobson	0-8	8.0-15	---	4.5-7.3	0	0	0	0
	8-22	---	12-18	4.5-5.5	0	0	0	0
	22-60	---	10-16	4.5-5.5	0	0	0	0

Franklin County, Missouri
Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
14D:								
Hobson	0-8	8.0-15	---	4.5-7.3	0	0	0	0
	8-22	---	12-18	4.5-5.5	0	0	0	0
	22-60	---	10-16	4.5-5.5	0	0	0	0
15:								
Gladden	0-7	---	10-25	4.5-6.0	0	0	0	0
	7-12	---	6.0-12	4.5-6.0	0	0	0	0
	12-32	---	6.0-12	4.5-6.0	0	0	0	0
	32-60	---	3.0-12	4.5-6.0	0	0	0	0
Midco	0-7	6.0-12	---	5.6-6.5	0	0	0	0
	7-60	3.0-15	---	5.1-7.3	0	0	0	0
16:								
Blake	0-8	25-35	---	7.4-8.4	5-30	0	0	0
	8-20	20-30	---	7.4-8.4	5-30	0	0	0
	20-60	10-20	---	7.4-8.4	5-30	0	0	0
Waldron	0-6	30-40	---	6.6-7.8	0	0	0	0
	6-60	25-37	---	7.4-8.4	0	0	0	0
17:								
Hodge	0-10	3.0-10	---	6.6-7.8	5-10	0	0	0
	10-60	3.0-9.0	---	6.6-7.8	5-10	0	0	0
Blake	0-8	25-35	---	7.4-8.4	5-30	0	0	0
	8-20	20-30	---	7.4-8.4	5-30	0	0	0
	20-60	10-20	---	7.4-8.4	5-30	0	0	0

Franklin County, Missouri
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
19:								
Haynie	0-8	15-20	---	6.6-8.4	0-25	0	0	0
	8-60	15-20	---	7.4-8.4	5-30	0	0	0
Waldron	0-7	30-40	---	6.6-7.8	0	0	0	0
	7-60	25-37	---	7.4-8.4	0	0	0	0
20:								
Hodge	0-6	3.0-10	---	6.6-7.8	5-10	0	0	0
	6-60	3.0-9.0	---	6.6-7.8	5-10	0	0	0
Haynie	0-8	15-20	---	6.6-8.4	0-25	0	0	0
	8-60	15-20	---	7.4-8.4	5-30	0	0	0
22:								
Waldron	0-9	30-40	---	6.6-7.8	0	0	0	0
	9-60	25-37	---	7.4-8.4	0	0	0	0
Booker	0-14	30-45	---	5.6-7.3	---	---	---	---
	14-60	40-60	---	5.6-7.3	---	---	---	---
23C2:								
Winfield	0-5	10-15	---	5.6-7.3	---	---	---	---
	5-9	12-17	---	5.6-7.3	---	---	---	---
	9-48	13-18	---	4.5-6.5	---	---	---	---
	48-67	10-14	---	5.1-6.5	---	---	---	---

Franklin County, Missouri
Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23D2:								
Winfield	0-5	10-15	---	5.6-7.3	---	---	---	---
	5-9	12-17	---	5.6-7.3	---	---	---	---
	9-48	13-18	---	4.5-6.5	---	---	---	---
	48-67	10-14	---	5.1-6.5	---	---	---	---
24E:								
Gatewood	0-9	8.0-16	---	5.1-7.3	0	0	0	0
	9-24	30-44	---	5.1-7.3	0	0	0	0
	24-29	30-44	---	6.1-7.8	0	0	0	0
	29-33	---	---	---	---	---	---	---
25E:								
Beemont	0-2	---	---	4.5-6.5	0	0	0	0
	2-17	---	---	3.6-6.0	0	0	0	0
	17-36	---	---	4.5-5.5	0	0	0	0
	36-52	---	---	4.5-5.5	0	0	0	0
	52-56	---	---	---	---	---	---	---
29F:								
Menfro	0-10	10-16	---	5.1-7.3	---	---	---	---
	10-14	15-20	---	5.1-7.3	---	---	---	---
	14-45	15-20	---	5.1-7.3	---	---	---	---
	45-60	5.0-10	---	5.6-7.3	---	---	---	---
Bardley	0-8	8.0-14	---	4.5-6.5	0	0	0	0
	8-30	30-42	---	4.5-6.5	0	0	0	0
	30-34	---	---	---	---	---	---	---

Franklin County, Missouri
Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
31:								
Pits	---	---	---	---	---	---	---	---
Udorthents	---	---	---	---	---	---	---	---
32:								
Pits	---	---	---	---	---	---	---	---
36F:								
Bardley	0-2	10-16	---	4.5-6.5	0	0	0	0
	2-7	13-19	---	4.5-6.5	0	0	0	0
	7-33	25-40	---	4.5-7.3	0	0	0	0
	33-43	---	---	---	---	---	---	---
38A:								
Haymond	0-4	4.0-15	---	5.6-7.8	0	0	0	0
	4-60	4.0-15	---	5.6-7.8	0	0	0	0
Riverwash	0-6	---	---	---	---	---	0	---
	6-60	---	---	---	---	---	0	---
39:								
Haymond	0-10	4.0-15	---	5.6-7.8	0	0	0	0
	10-60	4.0-15	---	5.6-7.8	0	0	0	0
40A:								
Racoon	0-12	14-20	---	4.5-7.3	0	0	0	0
	12-32	11-16	---	4.5-7.3	0	0	0	0
	32-60	---	17-23	4.5-5.5	0	0	0	0

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Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
43:								
Cedargap	0-12	7.0-17	---	5.6-7.3	0	0	0	0
	12-36	6.0-16	---	5.6-7.3	0	0	0	0
	36-60	6.0-18	---	5.6-7.3	0	0	0	0
44:								
Gladden	0-7	---	10-25	4.5-6.0	0	0	0	0
	7-12	---	6.0-12	4.5-6.0	0	0	0	0
	12-32	---	6.0-12	4.5-6.0	0	0	0	0
	32-60	---	3.0-12	4.5-6.0	0	0	0	0
45:								
Pope	0-12	---	---	3.6-6.0	---	---	0	---
	12-60	---	---	3.6-5.5	---	---	0	---
46F:								
Lily	0-7	---	3.0-8.0	3.6-5.5	0	0	0	0
	7-29	---	7.0-13	3.6-5.5	0	0	0	0
	29-33	---	---	---	---	---	---	---
Holstein	0-9	---	---	5.6-6.5	0	0	0	0
	9-18	---	---	5.1-6.0	0	0	0	0
	18-51	---	---	4.5-6.0	0	0	0	0
	51-65	---	---	4.5-6.0	0	0	0	0
Ramsey	0-6	---	---	4.5-5.5	---	---	0	---
	6-16	---	---	4.5-5.5	---	---	0	---
	16-20	---	---	---	---	---	---	---

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Chemical Properties of the Soils

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
47D:								
Hobson	0-7	8.0-15	---	4.5-7.3	0	0	0	0
	7-23	---	12-18	4.5-5.5	0	0	0	0
	23-44	---	10-16	4.5-5.5	0	0	0	0
	44-60	---	15-35	4.5-5.5	0	0	0	0
Lily	0-8	---	3.0-8.0	3.6-5.5	0	0	0	0
	8-28	---	7.0-13	3.6-5.5	0	0	0	0
	28-32	---	---	---	---	---	---	---
Ramsey	0-6	---	---	4.5-5.5	---	---	0	---
	6-15	---	---	4.5-5.5	---	---	0	---
	15-19	---	---	---	---	---	---	---
AED:								
Orthent	---	---	---	---	---	---	---	---
M-W:								
Water	---	---	---	---	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---